

MINNESOTA TECHNICAL GUIDE SECTION III  
CONSERVATION MANAGEMENT SYSTEM (CMS) GUIDESHEET

Landuse Type Forestland Resource Setting No. \_\_\_\_\_ MLRA 57, 88, 90 FIELD OFFICE \_\_\_\_\_

Resource Setting: Owner objectives – Economic return of timber products from land, minimize sedimentation from harvest activities, and improve wildlife habitat.  
Soils-Silt loams and loams on 3 to 8% slopes.  
Vegetation – Mixed conifer & deciduous trees with shrub/grass/forb understory  
Resource concerns-Sedimentation from harvest and road building into streams/lakes, loss of habitat as stands mature.

REFERENCE FROM CPPE AND RESOURCE CONSIDERATIONS

| Resource:                       | Soil                  |                     |                                  |  | Water   |                                 |                                |                                |
|---------------------------------|-----------------------|---------------------|----------------------------------|--|---|---------------------------------|--------------------------------|--------------------------------|
|                                 | Erosion<br>Streambank | Erosion<br>Roadbank | Deposition<br>Offsite<br>Damages |  | Restricted<br>Capacity<br>Deposition<br>Offsite | Surface<br>Contam.<br>Turbidity | Surface Contam.<br>Temperature | Aquatic Habitat<br>Suitability |
|                                 | A-1-e                 | A-1-h               | A-3-b                            |  | B-1-h   | B-2-i                           | B-2-m                          | B-2-o                          |
| RMS # 1<br>Practice # And Name: |                       |                     |                                  |  |   |                                 |                                |                                |
| 560-Access Road                 | MOD+                  | SIG+                | SIG+                             |  | MOD+  | MOD+                            | NA                             | SIG+                           |
| 342-Crit. Area Plant            | MOD+                  | SIG+                | SIG+                             |  | SIG+  | SIG+                            | SLI+                           | SIG+                           |
| 654-Wood Imp. Hvst.             | SIG+                  | SIG+                | SLI-                             |  | SLI-  | MOD-                            | SLI-                           | SLI-                           |
| 666-Woodland Improvement        | SLI-                  | 0                   | SLI-                             |  | 0   | SLI-                            | 0                              | 0                              |
| 645 Wild Up Management          | SLI+                  | SLI+                | SLI+                             |  | MOD+  | MOD+                            | SIG+                           | SIG+                           |
|                                 |                       |                     |                                  |  |   |                                 |                                |                                |

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Resource Setting: Owner objectives – Economic return of timber products from land, minimize sedimentation from harvest activities, and improve wildlife habitat.  
Soils-Silt loams and loams on 3 to 8% slopes.  
Vegetation-Mixed conifer and deciduous trees with shrub/grass/forb understory.  
Resource concerns-Sedimentation from harvest and road building into streams/lakes, loss of habitat as stands mature.

REFERENCE FROM CPPE AND RESOURCE CONSIDERATIONS

| Resource:                       | Plants      |          |                  |  | Animals         |                              |  |  |
|---------------------------------|-------------|----------|------------------|--|-----------------|------------------------------|--|--|
|                                 | Suitability | Product. | Health and Vigor |  | Food (Wildlife) | Cover and Shelter (Wildlife) |  |  |
|                                 | D-1-b       | D-2-a    | D-2-b            |  | E-1-a           | E-1-b                        |  |  |
| RMS # 1<br>Practice # And Name: |             |          |                  |  |                 |                              |  |  |
| 560-Access Road                 | NA          | SLI+     | SLI+             |  | MOD+            | MOD+                         |  |  |
| 342-Crit. Area Plant            | SIG+        | SIG+     | SIG+             |  | MOD+            | MOD+                         |  |  |
| 654-Wood Imp. Hvst.             | SIG+        | SIG+     | SIG+             |  | SIG+            | MOD+                         |  |  |
| 666-Woodland Improvement        | SIG+        | SIG+     | SIG+             |  | SLI+            | MOD+                         |  |  |
| 645 Wild Up Management          | SIG+        | SIG+     | SIG+             |  | SIG+            | SIG+                         |  |  |
|                                 |             |          |                  |  |                 |                              |  |  |

Developed By/Date \_\_\_\_\_ AO Concurrence/Date \_\_\_\_\_ SO Concurrence/Date \_\_\_\_\_

MINNESOTA TECHNICAL GUIDE SECTION III  
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Landuse Type Forestland Resource Setting No. \_\_\_\_\_ MLRA 92 FIELD OFFICE \_\_\_\_\_

|  |                       |                     |                                   |                                 |                             |                                   |  |  |
|--|-----------------------|---------------------|-----------------------------------|---------------------------------|-----------------------------|-----------------------------------|--|--|
| Resource Setting: Owner objectives – long term production of timber products, improve wildlife habitat, pine production<br>Soils-coars textured sandy soils on 6 to 12% slopes.<br>Vegetation – Existing vegetation consists of mixed hardwood and conifer species.<br>Resource concerns – Impacts of forest management activities on water quality and the stability of slopes/soils of the WS. |                       |                     |                                   |                                 |                             |                                   |  |  |
| REFERENCE FROM CPPE AND RESOURCE CONSIDERATIONS  |                       |                     |                                   |                                 |                             |                                   |  |  |
| Resource:  | Soils                 |                     | Water                             |                                 |                             |                                   |  |  |
|  | Streambank<br>Erosion | Roadbank<br>Erosion | Restricted<br>Capacity<br>Offsite | Surface<br>Contam.<br>Turbidity | Surface<br>Contam.<br>Temp. | Aquatic<br>Habitat<br>Suitability |  |  |
|  | A-1-e                 | A-1-h               | B-1-h                             | B-2-i                           | B-2-m                       | B-2-o                             |  |  |
| RMS # 1<br>Practice # And Name:  |                       |                     |                                   |                                 |                             |                                   |  |  |
| 654-Woodland Imp. Hvst   | MOD+                  | MOD+                | SLI+                              | MOD+                            | MOD+                        | MOD+                              |  |  |
| 394-Firebreak  | SLI+                  | 0                   | SLI+                              | SLI-                            | NA                          | SLI+                              |  |  |
| 580-Streambank Prot.   | SIG+                  | NA                  | MOD+                              | MOD+                            | 0                           | SIG+                              |  |  |
| 393-Filterstrip  | MOD+                  | SLI+                | SLI-                              | MOD+                            | 0                           | SIG+                              |  |  |
| 612-Tree Planting  | MOD+                  | MOD+                | SLI+                              | SLI+                            | MOD+                        | SLI+                              |  |  |
| 560-Access Road  | SLI+                  | SIG+                | SLI+                              | MOD+                            | NA                          | SIG+                              |  |  |
| 595c-Pest Management   | NA                    | NA                  | 0                                 | 0                               | 0                           | SIG+                              |  |  |
| 645-Wildlife Upland Mgmt.  | SLI+                  | SLI+                | SLI+                              | SLI+                            | SLI+                        | SLI+                              |  |  |

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CONSERVATION MANAGEMENT SYSTEM (CMS) GUIDESHEET

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|  |          |                             |               |                    |                                    |  |  |  |
|--|----------|-----------------------------|---------------|--------------------|------------------------------------|--|--|--|
| Resource Setting: Owner objectives – long term production of timber products, improve wildlife habitat, pine production<br>Soils-coars textured sandy soils on 6 to 12% slopes.<br>Vegetation – Existing vegetation consists of mixed hardwood and conifer species.<br>Resource concerns – Impacts of forest management activities on water quality and the stability of slopes/soils of the WS. |          |                             |               |                    |                                    |  |  |  |
| REFERENCE FROM CPPE AND RESOURCE CONSIDERATIONS  |          |                             |               |                    |                                    |  |  |  |
| Resource:  | Plants   |                             |               | Animals            |                                    |  |  |  |
|  | Product. | Estab.<br>Growth<br>Harvest | Pest<br>Mgmt. | Food<br>(wildlife) | Cover and<br>Shelter<br>(Wildlife) |  |  |  |
|  | D-2-a    | D-3-a                       | D-3-c         | E-1-a              | E-1-b                              |  |  |  |
| RMS # 2<br>Practice # And Name:  |          |                             |               |                    |                                    |  |  |  |
| 654-Woodland Imp.  | SIG+     | SIG+                        | SIG+          | MOD+               | MOD+                               |  |  |  |
| 394-Firebreak  | SLI-     | SIG+                        | SLI+          | MOD+               | MOD+                               |  |  |  |
| 580-Streambnk Prot.  | 0        | 0                           | 0             | MOD+               | MOD+                               |  |  |  |
| 393-Filterstrip  | SLI+     | NA                          | SLI-          | SLI+               | MOD+                               |  |  |  |
| 612-Tree Planting  | SIG+     | SIG+                        | MOD+          | MOD+               | MOD+                               |  |  |  |
| 560-Access Road  | NA       | SIG+                        | NA            | SLI+               | SLI+                               |  |  |  |
| 595c-Pest Management   | MOD+     | SIG+                        | SIG+          | SLI-               | MOD-                               |  |  |  |
| 645-Wildlife Upland Mgmt.  | SLI+     | SLI+                        | SLI+          | SIG+               | SIG+                               |  |  |  |

Developed By/Date \_\_\_\_\_ AO Concurrence/Date \_\_\_\_\_ SO Concurrence/Date \_\_\_\_\_

MINNESOTA TECHNICAL GUIDE SECTION III  
CONSERVATION MANAGEMENT SYSTEM (CMS) GUIDESHEET

Landuse Type Forestland Resource Setting No. \_\_\_\_\_ MLRA 92 FIELD OFFICE \_\_\_\_\_

|  |                       |                   |                  |                        |                         |                           |                           |                             |
|--|-----------------------|-------------------|------------------|------------------------|-------------------------|---------------------------|---------------------------|-----------------------------|
| Resource Setting: Owner objectives – long term production of timber products, manage for conifer species, improve wildlife habitat.<br>Soils-Silty clay on 12 to 25% slopes.<br>Vegetation-Present vegetation consist of hardwood species, such as aspen and birch.<br>Resource concerns- impacts that harvest activity has on storm run off creating streambank stability problems. |                       |                   |                  |                        |                         |                           |                           |                             |
| REFERENCE FROM CPPE AND RESOURCE CONSIDERATIONS  |                       |                   |                  |                        |                         |                           |                           |                             |
| Resource:  | Soil                  |                   |                  |                        | Water                   |                           |                           |                             |
|  | Classic Gully Erosion | Streambnk Erosion | Roadbank Erosion | Restr. Capacity Onsite | Restr. Capacity Offsite | Surface Contam. Turbidity | Surface Contam. Tempature | Aquatic Habitat Suitability |
|  | A-1-e                 | A-1-g             | A-1-h            | B-1-g                  | B-1-h                   | B-2-i                     | B-2-m                     | B-2-o                       |
| RMS # 1<br>Practice # And Name:  |                       |                   |                  |                        |                         |                           |                           |                             |
| 580-Streambank Prot.   | SIG+                  | SIG+              | NA               | SLI+                   | MOD+                    | MOD+                      | 0                         | SIG+                        |
| 612-Tree Planting  | MOD+                  | SIG+              | MOD+             | MOD+                   | SLI+                    | SLI+                      | MOD+                      | SLI+                        |
| 595c-Pest Management   | NA                    | NA                | NA               | 0                      | 0                       | 0                         | 0                         | SIG+                        |
| 490-Site Preparation   | 0                     | MOD+              | 0                | MOD+                   | SLI+                    | 0                         | SLI-                      | 0                           |
| 645 Wild Up Management   | SLI+                  | SLI+              | SLI+             | SLI+                   | SLI+                    | SLI+                      | SLI+                      | SLI+                        |
| 394-Firebreak  | SLI+                  | 0                 | 0                | SLI+                   | SLI+                    | SLI-                      | NA                        | SLI+                        |
| 654-Woodland Imp Hvst.   | MOD+                  | SIG+              | MOD+             | SLI+                   | SLI+                    | MOD+                      | MOD+                      | MOD+                        |
| 342-Crit. Area Planting  | MOD+                  | MOD+              | SIG+             | SIG+                   | SIG+                    | SIG+                      | SLI+                      | MOD+                        |

Developed By/Date \_\_\_\_\_ AO Concurrence/Date \_\_\_\_\_ SO Concurrence/Date \_\_\_\_\_

MINNESOTA TECHNICAL GUIDE SECTION III  
CONSERVATION MANAGEMENT SYSTEM (CMS) GUIDESHEET

Landuse Type Forestland Resource Setting No. \_\_\_\_\_ MLRA 92 FIELD OFFICE \_\_\_\_\_

|  |             |          |                       |                 |                 |                              |  |  |
|--|-------------|----------|-----------------------|-----------------|-----------------|------------------------------|--|--|
| Resource Setting: Owner objectives – long term production of timber products, manage for conifer species, and improve wildlife habitat.<br>Soils-Silt clay on 12 to 25% slopes.<br>Vegetation – Present vegetation consist of hardwood species, such as aspen and birch.<br>Resource concerns-Impacts that harvest activity has on storm run off creating streambank stability problems. |             |          |                       |                 |                 |                              |  |  |
| REFERENCE FROM CPPE AND RESOURCE CONSIDERATIONS  |             |          |                       |                 |                 |                              |  |  |
| Resource:  | Plants      |          |                       | Animals         |                 |                              |  |  |
|  | Suitability | Product. | Estab. Growth Harvest | Pest Management | Food (Wildlife) | Cover and Shelter (Wildlife) |  |  |
|  | D-1-b       | D-2-a    | D-3-c                 | D-3-c           | E-1-a           | E-1-b                        |  |  |
| RMS # 1<br>Practice # And Name:  |             |          |                       |                 |                 |                              |  |  |
| 580-Streambank Prot.   | SIG+        | 0        | 0                     | 0               | MOD+            | MOD+                         |  |  |
| 612-Tree Planting  | SIG+        | SIG+     | SIG+                  | MOD+            | MOD+            | MOD+                         |  |  |
| 595c-Pest Management   | NA          | MOD+     | SIG+                  | SIG+            | SLI-            | SLI-                         |  |  |
| 490-Site Preparation   | MOD+        | SIG+     | SIG+                  | MOD+            | MOD-            | MOD-                         |  |  |
| 645 Wild Up Management   | SLI+        | SLI+     | SLI+                  | SLI+            | SIG+            | SIG+                         |  |  |
| 394-Firebreak  | 0           | SLI-     | SIG+                  | SLI+            | MOD+            | MOD+                         |  |  |
| 654-Woodland Imp Hvst.   | SIG+        | SIG+     | SIG+                  | SIG+            | MOD+            | MOD+                         |  |  |
| 342-Crit. Area Planting  | SIG+        | SIG+     | SIG+                  | NA              | MOD+            | MOD+                         |  |  |

Developed By/Date \_\_\_\_\_ AO Concurrence/Date \_\_\_\_\_ SO Concurrence/Date \_\_\_\_\_

MINNESOTA TECHNICAL GUIDE SECTION III  
CONSERVATION MANAGEMENT SYSTEM (CMS) GUIDESHEET

Landuse Type Woodland Resource Setting No. 1 MLRA 103 FIELD OFFICE \_\_\_\_\_

Resource Setting: A stand of cottonwood, ash, basswood, prickly ash with a comonent of red oak located on the slope of the valley between the upland fields and the valley drainageways. Soils are well drained loams and clayey soils on the side slopes with very wet swale drainageways that are poorly drained. Slopes range from 18 – 25% on the side slopes to 2% in the swales. The elm component is dying out and the stand currently has poor species component with the lower value hardwoods predominate. Lack of management is evident with dominant trees of poor vigor and form. Small gullies are forming at the edges of the upper fields and extend into the woodland. The landowner's objectives are to increase the higher value hardwoods and implement a management system that will provide a consistent income.

REFERENCE FROM CPPE AND RESOURCE CONSIDERATIONS

| Resource:                       | Soil    |              |            | Water         | Plants      |            |              |                  |
|---------------------------------|---------|--------------|------------|---------------|-------------|------------|--------------|------------------|
|                                 | Gullies | Stream Banks | Road Banks | Excess Runoff | Suitability | Productive | Health Vigor | Growth & Harvest |
|                                 | A-1-d   | A-1-e        | A-1-h      | B-1-b         | D-1-b       | D-2-a      | D-2-b        | D-3-a            |
| RMS # 1<br>Practice # And Name: |         |              |            |               |             |            |              |                  |
| 362 – Diversion                 | SLI+    | 0            | SLI+       | SIG+          | 0           | 0          | 0            | 0                |
| 612-Tree Planting               | SLI+    | SLI+         | SLI+       | SLI+          | SIG+        | SIG+       | 0            | SIG+             |
| 654i-Improved Harvest           | SLI+    | 0            | SLI+       | MOD+          | SIG+        | SIG+       | SIG+         | SIG+             |
| 666-Woodland Improve            | 0       | 0            | 0          | MOD+          | SLI+        | SLI+       | SIG+         | SIG+             |
| 645-Upland Wildlife Management  | MOD+    | SLI+         | SLI+       | SLI+          | SLI+        | SLI+       | SLI+         | SLI+             |
|                                 |         |              |            |               |             |            |              |                  |

Developed By/Date \_\_\_\_\_ AO Concurrence/Date \_\_\_\_\_ SO Concurrence/Date \_\_\_\_\_

MINNESOTA TECHNICAL GUIDE SECTION III  
CONSERVATION MANAGEMENT SYSTEM (CMS) GUIDESHEET

Landuse Type Woodland Resource Setting No. 1 MLRA 103 FIELD OFFICE \_\_\_\_\_

Resource Setting: A stand of cottonwood, ash, basswood, prickly ash with a component of red oak located on the slope of the valley between the upland fields and the valley drainageways. Soils are well drained loams and clayey soils on the side slopes with very wet swale drainageways that are poorly drained. Slopes range from 18 – 25% on the side slopes to 2% in the swales. The elm component is dying out and the stand currently has poor species component with the lower value hardwoods predominate. Lack of management is evident with dominant trees of poor vigor and form. Small gullies are forming at the edges of the upper fields and extend into the woodland. The landowner's objectives are to increase the higher value hardwoods and implement a management system that will provide a consistent income.

REFERENCE FROM CPPE AND RESOURCE CONSIDERATIONS

|                                 |        |               |                 |  |  |  |  |  |
|---------------------------------|--------|---------------|-----------------|--|--|--|--|--|
| Resource:                       | Animal |               |                 |  |  |  |  |  |
|                                 | Food   | Cover Shelter | Pop and Balance |  |  |  |  |  |
|                                 | E-1-a  | E-1-b         | E-2-b           |  |  |  |  |  |
| RMS # 1<br>Practice # And Name: |        |               |                 |  |  |  |  |  |
| 362 – Diversion                 | SLI+   | SLI+          | SLI+            |  |  |  |  |  |
| 612-Tree Planting               | MOD+   | MOD+          | MOD+            |  |  |  |  |  |
| 654i-Improved Harvest           | MOD+   | MOD+          | MOD+            |  |  |  |  |  |
| 666-Woodland Improve            | MOD+   | MOD+          | MOD+            |  |  |  |  |  |
| 645-Upland Wildlife Management  | SIG+   | SIG+          | SIG+            |  |  |  |  |  |
|                                 |        |               |                 |  |  |  |  |  |

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## Conservation Management System Options Worksheet

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MINNESOTA TECHNICAL GUIDE SECTION III  
CONSERVATION MANAGEMENT SYSTEM (CMS) GUIDESHEET

Conservation Management System Options Worksheet

| RESOURCE: WOODLAND MLRA 103 SEETING # 1 RIVERY VALLEY HARDWOODS |         |             |            |               |             |            |                |                |
|---|---------|-------------|------------|---------------|-------------|------------|----------------|----------------|
| Considerations  | SOIL    |             |            | Water         | Plants      |            |                |                |
| Resource Problems   | Gullies | Stream Bank | Road Banks | Excess Runoff | Suitability | Production | Health & Vigor | Growth Harvest |
| CMS Options   | A-1-d   | A-1-e       | A-1-h      | B-1-b         | D-1-b       | D-2-a      | D-2-b          | D-3-a          |
| RMS # 1<br>Practice # And Name:                                 |         |             |            |               |             |            |                |                |
| 362 – Diversion   | SLI+    | 0           | SLI+       | SIG+          | 0           | 0          | 0              | 0              |
| 410-Grade Stabilizer  | SIG+    | 0           | SLI+       | NA            | 0           | 0          | 0              | 0              |
| 580-Streambank Protection                                       | 0       | SIG+        | SLI+       | NA            | 0           | 0          | 0              | 0              |
| 612-Tree Planting   | SLI+    | SLI+        | SLI+       | SLI+          | SIG+        | SIG+       | 0              | SIG+           |
| 654-Improved Harvest  | SLI+    | 0           | SLI+       | MOD+          | SIG+        | SIG+       | SIG+           | SIG+           |
| 666-Woodland Improved   | 0       | 0           | 0          | MOD+          | SLI+        | SLI+       | SIG+           | SIG+           |
| 660-Woodland Prune  | 0       | 0           | 0          | 0             | 0           | SLI+       | 0              | SLI+           |
| 645-Upland Wildlife Mgmt.                                       | MOD+    | SLI+        | SLI+       | SLI+          | SLI+        | SLI+       | SLI+           | SLI+           |
|   |         |             |            |               |             |            |                |                |
|   |         |             |            |               |             |            |                |                |
|   |         |             |            |               |             |            |                |                |
|   |         |             |            |               |             |            |                |                |

MINNESOTA TECHNICAL GUIDE SECTION III  
CONSERVATION MANAGEMENT SYSTEM (CMS) GUIDESHEET

Conservation Management System Options Worksheet

| RESOURCE: WOODLAND MLRA 103 SEETING # 1 RIVERY VALLEY HARDWOODS |         |               |                 |  |  |  |  |  |
|---|---------|---------------|-----------------|--|--|--|--|--|
| Considerations  | Animals |               |                 |  |  |  |  |  |
| Resource Problems   | Food    | Cover Shelter | Pop and Balance |  |  |  |  |  |
|   | E-1-a   | E-1-b         | E-2-b           |  |  |  |  |  |
| 362 – Diversion   | SLI+    | SLI+          | SLI+            |  |  |  |  |  |
| 412-Grade Stabilizer  | 0       | 0             | SLI+            |  |  |  |  |  |
| 580-Streambank Protection                                       | 0       | 0             | 0               |  |  |  |  |  |
| 612-Tree Planting   | MOD+    | MOD+          | MOD+            |  |  |  |  |  |
| 654-Improved Harvest  | MOD+    | MOD+          | MOD+            |  |  |  |  |  |
| 666-Woodland Improved   | MOD+    | MOD+          | MOD+            |  |  |  |  |  |
| 660-Woodland Prune  | 0       | 0             | 0               |  |  |  |  |  |
| 645-Upland Wildlife Mgmt  | SIG+    | SIG+          | SIG+            |  |  |  |  |  |
|   |         |               |                 |  |  |  |  |  |
|   |         |               |                 |  |  |  |  |  |
|   |         |               |                 |  |  |  |  |  |
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MINNESOTA TECHNICAL GUIDE SECTION III  
CONSERVATION MANAGEMENT SYSTEM (CMS) GUIDESHEET

Landuse Type Woodland Resource Setting No. 1 MLRA 104 FIELD OFFICE \_\_\_\_\_

Resource Setting: A stand of northern hardwoods also referred to as the big woods with the primary species present of sugar maple, red and white oak, white ash and basswood. The woods are not currently being grazed but there is evidence that there was past grazing. Cattle lanes are still visible and three damage is still evident. Small gullies are forming at the field edges but dissipate quickly. Past improper logging operations have removed some of the overstory and left the poorly formed, less valuable species. Skid trails are evident but have reestablished cover thorough volunteer vegetation primarily forbes. The soils range from moderately well drained to somewhat poorly drained silt loams over loamy glacial tills. Land slopes range from 2-16%. This land is suitable for cropland and has the potential to be converted if a moderate economic return is not achieved. The landowners objectives are to increase the sugar maple, basswood component, establish a harvest cycle that will generate an consistent economic return while increasing and improving the selected crop species.

REFERENCE FROM CPPE AND RESOURCE CONSIDERATIONS

| Resource:                       | Soil    | Water            | Plants      |                       |        | Animals |                  |                  |
|---------------------------------|---------|------------------|-------------|-----------------------|--------|---------|------------------|------------------|
|                                 | Gullies | Excess<br>Runoff | Suitability | Production<br>Harvest | Growth | Food    | Cover<br>Shelter | Pop &<br>Balance |
|                                 | A-1-d   | B-1-b            | D-1-b       | D-2-a                 | D-3-a  | E-1-a   | E-1-b            | E-2-b            |
| RMS # 1<br>Practice # And Name: |         |                  |             |                       |        |         |                  |                  |
| 362-Diversion                   | SLI+    | SIG+             | 0           | 0                     | 0      | SLI+    | SLI+             | SLI+             |
| 410-Grade Stabilizer            | SIG+    | NA               | 0           | 0                     | 0      | 0       | 0                | SLI+             |
| 612-Tree Planting               | SLI+    | SLI+             | SIG+        | SIG+                  | SIG+   | MOD+    | MOD+             | SIG+             |
| 654i-Woodland Harvest           | SLI+    | SLI-             | SIG+        | SIG+                  | SIG+   | MOD+    | MOD+             | MOD+             |
| 666-Woodland Improvement        | 0       | 0                | SIG+        | SIG+                  | SIG+   | MOD+    | MOD+             | MOD+             |
| 645-Upland Wildlife Mgmt        | MOD+    | SLI+             | SLI+        | SLI+                  | SLI+   | SIG+    | SIG+             | SIG+             |

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MINNESOTA TECHNICAL GUIDE SECTION III  
CONSERVATION MANAGEMENT SYSTEM (CMS) GUIDESHEET

Landuse Type Woodland Resource Setting No. 1 MLRA 105 FIELD OFFICE \_\_\_\_\_

Resource Setting: A stand of poorly mixed low value bottomland/cove hardwoods comprising black walnut, basswood, red and white oak, and boxelder with severe plant competition. There is moderate livestock damage to trees, that also limits natural reproduction. There is poor species composition, although favored species are present, natural regeneration is primarily limited to boxelder. These stands are located on valley slopes and stream terraces, Soils are predominantly silt loam soils on bottomland and terraces with land slopes of 2-6% and are moderately well drained. Area may occasionally flood with rapid water movement. There are deeply entrenched gullies running through the topography with soil loss of 0.2 tons per linear foot. Access from an abandoned field road with moderate to severe washing of the road surface. The landowner's objectives are to increase the number and quality of the high value hardwoods, and stabilize the access road.

REFERENCE FROM CPPE AND RESOURCE CONSIDERATIONS

| Resource:                       | Soil    |              |            |            | Water         | Plants      |         |  |
|---------------------------------|---------|--------------|------------|------------|---------------|-------------|---------|--|
|                                 | Gullies | Stream Banks | Road Banks | Compaction | Excess Runoff | Suitability | Produc. |  |
|                                 | A-1-d   | A-1-e        | A-1-h      | A-2-b      | B-1-b         | D-1-b       | D-2-a   |  |
| RMS # 1<br>Practice # And Name: |         |              |            |            |               |             |         |  |
| 382-Fencing                     | FAC     | FAC          | FAC        | FAC        | FAC           | FAC         | FAC     |  |
| 342-Critical Area Seed          | SIG+    | SLI+         | SIG+       | SIG+       | SLI+          | SIG+        | SIG+    |  |
| 472-Livestock Exc.              | SIG+    | SIG+         | SIG+       | SIG+       | SLI+          | MOD+        | MOD+    |  |
| 612-Tree Planting               | SIG+    | SIG+         | SIG+       | SIG+       | SLI+          | SIG+        | SIG+    |  |
| 666-Woodland Imp.               | 0       | 0            | SLI+       | SLI+       | SLI+          | SIG+        | SIG+    |  |
| 560-Access Roads                | SLI+    | SLI+         | SIG+       | SLI+       | SLI+          | NA          | NA      |  |
| 645-Upland Wildlife Mgmt.       | MOD+    | MOD+         | SLI+       | SLI+       | SLI+          | SLI+        | SLI+    |  |

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MINNESOTA TECHNICAL GUIDE SECTION III  
CONSERVATION MANAGEMENT SYSTEM (CMS) GUIDESHEET

Landuse Type Woodland Resource Setting No. 1 MLRA 105 FIELD OFFICE \_\_\_\_\_

Resource Setting: A stand of poorly mixed low value bottomland/cove hardwoods comprising black walnut, basswood, red and white oak, and boxelder with severe plant competition. There is moderate livestock damage to trees, that also limits natural reproduction. There is poor species composition, although favored species are present, natural regeneration is primarily limited to boxelder. These stands are located on valley slopes and stream terraces, Soils are predominantly silt loam soils on bottomland and terraces with land slopes of 2-6% and are moderately well drained. Area may occasionally flood with rapid water movement. There are deeply entrenched gullies running through the topography with soil loss of 0.2 tons per linear foot. Access from an abandoned field road with moderate to severe washing of the road surface. The landowner's objectives are to increase the number and quality of the high value hardwoods, and stabilize the access road.

REFERENCE FROM CPPE AND RESOURCE CONSIDERATIONS

| Resource:                       | Soil           |             |            |       | Water            | Plants |  |  |
|---------------------------------|----------------|-------------|------------|-------|------------------|--------|--|--|
|                                 | Health & Vigor | Est. Growth | Pest Mgmt. | Food  | Cover or Shelter |        |  |  |
|                                 | D-2-b          | D-3-a       | D-3-c      | E-1-a | E-1-b            |        |  |  |
| RMS # 1<br>Practice # And Name: |                |             |            |       |                  |        |  |  |
| 382-Fencing                     | FAC            | FAC         | FAC        | FAC   | FAC              |        |  |  |
| 342-Critical Area Seed          | SIG+           | SIG+        | MOD+       | MOD+  | SLI+             |        |  |  |
| 372-Livestock Exc.              | SIG+           | SIG+        | SIG+       | MOD+  | MOD+             |        |  |  |
| 612-Tree Planting               | NA             | SIG+        | SIG+       | MOD+  | MOD+             |        |  |  |
| 666-Woodland Imp.               | SIG+           | SIG+        | SIG+       | SLI+  | SLI+             |        |  |  |
| 560-Access Roads                | NA             | SIG+        | NA         | SLI+  | SLI+             |        |  |  |
| 645-Upland Wildlife Mgmt.       | SLI+           | SLI+        | SLI+       | SIG+  | SIG+             |        |  |  |

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MINNESOTA TECHNICAL GUIDE SECTION III  
CONSERVATION MANAGEMENT SYSTEM (CMS) GUIDESHEET

Conservation Management System Options Worksheet

| RESOURCE: Woodland MLRA 105 Setting #1 |         |              |            |            |               |             |            |  |  |
|--|---------|--------------|------------|------------|---------------|-------------|------------|--|--|
| Resource:                              | Soil    |              |            |            | Water         | Plants      |            |  |  |
| Resource Problems                      | Gullies | Stream Banks | Road Banks | Compaction | Excess Runoff | Suitability | Productive |  |  |
| CMS OPTIONS                            | A-1-d   | A-1-e        | A-1-h      | A-2-b      | B-1-b         | D-1-b       | D-2-a      |  |  |
| RMS # 1<br>Practice # And Name:        |         |              |            |            |               |             |            |  |  |
| 382-Fencing                            | FAC     | FAC          | FAC        | FAC        | FAC           | FAC         | FAC        |  |  |
| 342-Critical Area Seed                 | SIG+    | SLI+         | SIG+       | SIG+       | SLI+          | SIG+        | SIG+       |  |  |
| 472-Livestock Exc.                     | SIG+    | SIG+         | SIG+       | SIG+       | SLI+          | MOD+        | MOD+       |  |  |
| 612-Tree Planting                      | SIG+    | SIG+         | SIG+       | SIG+       | SLI+          | SIG+        | SIG+       |  |  |
| 666-Woodland Imp.                      | 0       | 0            | SLI+       | SLI+       | SLI+          | SIG+        | SIG+       |  |  |
| 560-Access Roads                       | SLI+    | SLI+         | SIG+       | SLI+       | SLI+          | NA          | NA         |  |  |
| 645-Upland Wildlife Mgmt.              | MOD+    | MOD+         | SLI+       | SLI+       | SLI+          | SLI+        | SLI+       |  |  |

MINNESOTA TECHNICAL GUIDE SECTION III  
CONSERVATION MANAGEMENT SYSTEM (CMS) GUIDESHEET

Conservation Management System Options Worksheet

| RESOURCE: Woodland MLRA 105 Setting #1 |                |             |            |       |                  |  |  |  |
|--|----------------|-------------|------------|-------|------------------|--|--|--|
| Considerations                         | Plants         |             |            |       | Animals          |  |  |  |
| Resource Problems                      | Health & Vigor | Est. Growth | Pest Mgmt. | Food  | Cover or Shelter |  |  |  |
| CMS Options                            | D-2-b          | D-3-a       | D-3-c      | E-1-a | E-1-b            |  |  |  |
| 382-Fencing                            | FAC            | FAC         | FAC        | FAC   | FAC              |  |  |  |
| 342-Critical Area Seed                 | SIG+           | SIG+        | MOD+       | MOD+  | SLI+             |  |  |  |
| 372-Livestock Exc.                     | SIG+           | SIG+        | SIG+       | MOD+  | MOD+             |  |  |  |
| 612-Tree Planting                      | NA             | SIG+        | SIG+       | MOD+  | MOD+             |  |  |  |
| 666-Woodland Imp.                      | SIG+           | SIG+        | SIG+       | SLI+  | SLI+             |  |  |  |
| 560-Access Roads                       | NA             | SIG+        | NA         | SLI+  | SLI+             |  |  |  |
| 645-Upland Wildlife Mgmt.              | SLI+           | SLI+        | SLI+       | SIG+  | SIG+             |  |  |  |

MINNESOTA TECHNICAL GUIDE SECTION III  
CONSERVATION MANAGEMENT SYSTEM (CMS) GUIDESHEET

Conservation Management System Options Worksheet

| RESOURCE: Woodland MLRA 105 Setting #1 |         |              |            |            |               |             |            |  |  |
|--|---------|--------------|------------|------------|---------------|-------------|------------|--|--|
| Resource:                              | Soil    |              |            |            | Water         | Plants      |            |  |  |
| Resource Problems                      | Gullies | Stream Banks | Road Banks | Compaction | Excess Runoff | Suitability | Productive |  |  |
| CMS OPTIONS                            | A-1-d   | A-1-e        | A-1-h      | A-2-b      | B-1-b         | D-1-b       | D-2-a      |  |  |
| 382-Fencing                            | FAC     | FAC          | FAC        | FAC        | FAC           | FAC         | FAC        |  |  |
| 342-Critical Area Seed                 | SIG+    | SLI+         | SIG+       | SIG+       | SLI+          | SIG+        | SIG+       |  |  |
| 472-Livestock Exc.                     | SIG+    | SIG+         | SIG+       | SIG+       | SLI+          | MOD+        | MOD+       |  |  |
| 612-Tree Planting                      | SIG+    | SIG+         | SIG+       | SIG+       | SLI+          | SIG+        | SIG+       |  |  |
| 666-Woodland Imp.                      | 0       | 0            | SLI+       | SLI+       | SLI+          | SIG+        | SIG+       |  |  |
| 560-Access Roads                       | SLI+    | SLI+         | SIG+       | SLI+       | SLI+          | NA          | NA         |  |  |
| 393-Filter Strip                       | SLI+    | SLI+         | SLI+       | 0          | NA            | SIG+        | SLI+       |  |  |
| 654-Woodland Imp. Har.                 | 0       | SLI+         | 0          | SLI+       | SLI-          | SIG+        | SIG+       |  |  |
| 660-Woodland Pruning                   | 0       | 0            | 0          | 0          | 0             | 0           | SLI+       |  |  |
| 580-Streambank Protect                 | 0       | SIG+         | NA         | NA         | SLI+          | SIG+        | 0          |  |  |
| 685c-Pest Management                   | 0       | 0            | NA         | 0          | NA            | NA          | SLI+       |  |  |
| 645-Wildlife Mgmt.                     | MOD+    | MOD+         | SLI+       | SLI+       | SLI+          | SLI+        | SLI+       |  |  |

MINNESOTA TECHNICAL GUIDE SECTION III  
CONSERVATION MANAGEMENT SYSTEM (CMS) GUIDESHEET

Conservation Management System Options Worksheet

| RESOURCE: Woodland MLRA 105 Setting #1 |                |             |            |       |                  |  |  |  |
|--|----------------|-------------|------------|-------|------------------|--|--|--|
| Considerations                         | Plants         |             |            |       | Animals          |  |  |  |
| Resource Problems                      | Health & Vigor | Est. Growth | Pest Mgmt. | Food  | Cover or Shelter |  |  |  |
| Practices                              | D-2-b          | D-3-a       | D-3-c      | E-1-a | E-1-b            |  |  |  |
| 382-Fencing                            | FAC            | FAC         | FAC        | FAC   | FAC              |  |  |  |
| 342-Critical Area Seed                 | SIG+           | SIG+        | MOD+       | MOD+  | SLI+             |  |  |  |
| 372-Livestock Exc.                     | SIG+           | SIG+        | SIG+       | MOD+  | MOD+             |  |  |  |
| 612-Tree Planting                      | NA             | SIG+        | SIG+       | MOD+  | MOD+             |  |  |  |
| 666-Woodland Imp.                      | SIG+           | SIG+        | SIG+       | SLI+  | SLI+             |  |  |  |
| 560-Access Roads                       | NA             | SIG+        | NA         | SLI+  | SLI+             |  |  |  |
| 393-Filter Strip                       | 0              | NA          | 0          | SLI+  | SLI+             |  |  |  |
| 654-Woodland Imp. Har.                 | SIG+           | SLI+        | SIG+       | SLI+  | SLI+             |  |  |  |
| 660-Woodland Pruning                   | SIG+           | SIG+        | SLI+       | 0     | 0                |  |  |  |
| 580-Streambank Protect                 | 0              | 0           | 0          | SLI-  | SLI+             |  |  |  |
| 685c-Pest Management                   | SLI+           | SIG+        | SIG+       | SLI-  | SLI-             |  |  |  |
| 645-Upland Wildlife Mgmt.              | SLI+           | SLI+        | SLI+       | SIG+  | SIG+             |  |  |  |

MINNESOTA TECHNICAL GUIDE SECTION III  
CONSERVATION MANAGEMENT SYSTEM (CMS) GUIDESHEET

Landuse Type Woodland Resource Setting No. 2 MLRA 105 FIELD OFFICE \_\_\_\_\_

Resource Setting: A stand of upland hardwoods that include red and white oaks, basswood, elm, birch and boxelder. The stand is moderately grazed and associated soil compaction and grazing have restricted understory competition. Three health and vigor is fair to poor with the oak component showing decline. The woodland is located between cropland fields on the upland and extend down the hillside to valley floor. Small to moderate gullies are forming at the woods edge near the upland fields. Gullies are associated with water movement from the upland fields and overflow from diversions and ponds. Soils are primarily 18-40 inches of silty materials over bedrock or colluvium with land slopes of 18-55%, and are well drained. Access for management is poor to nonexistent. Landowner's objectives are to increase the red and white oak component, increase the quality and quantity of sawlogs and veneer, and control the gullies encroaching into the cropland fields.

REFERENCE FROM CPPE AND RESOURCE CONSIDERATIONS

| Resource:                       | Soil    |              |            | Water     | Plants      |            |              |             |
|---------------------------------|---------|--------------|------------|-----------|-------------|------------|--------------|-------------|
|                                 | Gullies | Access Roads | Compaction | Turbidity | Suitability | Productive | Health Vigor | Est. Growth |
|                                 | A-1-d   | A-1-h        | A-2-b      | B-2-i     | D-1-b       | D-2-a      | D-2-d        | D-3-a       |
| RMS # 1<br>Practice # And Name: |         |              |            |           |             |            |              |             |
| 410-Grade Stabilizer            | SIG+    | SIG+         | 0          | SIG+      | 0           | NA         | NA           | SLI+        |
| 382-Fencing                     | FAC     | FAC          | FAC        | FAC       | FAC         | FAC        | FAC          | FAC         |
| 372-Livestock Exclusion         | SLI+    | SLI+         | SLI+       | SLI+      | SIG+        | SIG+       | SIG+         | SIG+        |
| 560-Access Road                 | SLI+    | SIG+         | SLI+       | 0         | SIG+        | SIG+       | SIG+         | SIG+        |
| 612-Tree Planting               | SLI+    | SLI+         | SIG+       | SLI+      | SIG+        | SIG+       | SIG+         | SIG+        |
| 654-Woodland Harvest            | SLI+    | SLI+         | SLI+       | SLI+      | SIG+        | SIG+       | SIG+         | SIG+        |
| 666-Woodland Improvement        | SLI+    | SIG+         | SLI+       | 0         | SIG+        | SIG+       | SIG+         | SIG+        |
| 645-Upland Wildlife Mgmt.       | MOD+    | 0            | SLI+       | SLI+      | SLI+        | SLI+       | SLI          | SLI+        |

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MINNESOTA TECHNICAL GUIDE SECTION III  
CONSERVATION MANAGEMENT SYSTEM (CMS) GUIDESHEET

Landuse Type Woodland Resource Setting No. 2 MLRA 105 FIELD OFFICE \_\_\_\_\_

Resource Setting: A stand of upland hardwoods that include red and white oaks, basswood, elm, birch and boxelder. The stand is moderately grazed and associated soil compaction and grazing have restricted understory competition. Three health and vigor is fair to poor with the oak component showing decline. The woodland is located between cropland fields on the upland and extend down the hillside to valley floor. Small to moderate gullies are forming at the woods edge near the upland fields. Gullies are associated with water movement from the upland fields and overflow from diversions and ponds. Soils are primarily 18-40 inches of silty materials over bedrock or colluvium with land slopes of 18-55%, and are well drained. Access for management is poor to nonexistent.

REFERENCE FROM CPPE AND RESOURCE CONSIDERATIONS

| Resource:                       | Plants          | Animals       |  |  |  |  |  |  |
|---------------------------------|-----------------|---------------|--|--|--|--|--|--|
|                                 | Pest Management | Pop & Balance |  |  |  |  |  |  |
|                                 | A-3-c           | E-2-a         |  |  |  |  |  |  |
| RMS # 1<br>Practice # And Name: |                 |               |  |  |  |  |  |  |
| 410-Grade Stabilizer            | NA              | SIG+          |  |  |  |  |  |  |
| 382-Fencing                     | FAC             | FAC           |  |  |  |  |  |  |
| 372-Livestock Exclusion         | SIG+            | SIG+          |  |  |  |  |  |  |
| 560-Access Road                 | SLI+            | SLI+          |  |  |  |  |  |  |
| 612-Tree Planting               | SIG+            | SIG+          |  |  |  |  |  |  |
| 654-Woodland Harvest            | SIG+            | SLI+          |  |  |  |  |  |  |
| 666-Woodland Improvement        | SIG+            | SLI+          |  |  |  |  |  |  |
| 645-Upland Wildlife Mgmt.       | SLI+            | SIG+          |  |  |  |  |  |  |

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## Conservation Management System Options Worksheet

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MINNESOTA TECHNICAL GUIDE SECTION III  
CONSERVATION MANAGEMENT SYSTEM (CMS) GUIDESHEET

| RESOURCE: WOODLAND MLRA 105 SETTING # 2 UPLAND HARDWOODS |                 |               |  |  |  |  |  |  |
|--|-----------------|---------------|--|--|--|--|--|--|
| Resource:  | Plants          | Animals       |  |  |  |  |  |  |
|  | Pest Management | Pop & Balance |  |  |  |  |  |  |
|  | A-3-c           | E-2-a         |  |  |  |  |  |  |
| 410-Grade Stabilizer                                     | NA              | SIG+          |  |  |  |  |  |  |
| 362-Diversion  | SLI+            | SLI+          |  |  |  |  |  |  |
| 382-Fencing  | FAC             | FAC           |  |  |  |  |  |  |
| 612-Tree Planting  | SIG+            | SIG+          |  |  |  |  |  |  |
| 654-Woodland Harvest                                     | SIG+            | SIG+          |  |  |  |  |  |  |
| 560-Access Road  | SLI+            | SLI+          |  |  |  |  |  |  |
| 666-Woodland Improvement                                 | SIG+            | SLI+          |  |  |  |  |  |  |
| 372-Livestock Exclusion                                  | SIG+            | SIG+          |  |  |  |  |  |  |
| 645-Upland Wildlife Mgmt.                                | SLI+            | SIG+          |  |  |  |  |  |  |

MINNESOTA TECHNICAL GUIDE SECTION III  
CONSERVATION MANAGEMENT SYSTEM (CMS) GUIDESHEET

| ESOURCE: WOODLAND MLRA 105 SETTING #2 UPLAND HARDWOODS |         |              |            |           |             |              |                |              |
|--|---------|--------------|------------|-----------|-------------|--------------|----------------|--------------|
| Considerations   | SOIL    |              |            | Water     | Plants      |              |                |              |
| Resource Problems                                      | Gullies | Access Roads | Compaction | Turbidity | Suitability | Productivity | Health & Vigor | Est. Harvest |
| CMS Options  | A-1-d   | A-1-h        | A-2-b      | B-2-I     | D-1-b       | D-2-a        | D-2-b          | D-3-a        |
| 410-Grade Stabil.                                      | SIG+    | SIG+         | 0          | SIG+      | 0           | NA           | NA             | SLI+         |
| 362-Diversion  | SIG+    | SLI+         | 0          | SLI+      | NA          | SLI+         | SLI+           | SLI+         |
| 382-Fencing  | FAC     | FAC          | FAC        | FAC       | FAC         | FAC          | FAC            | FAC          |
| 612-Tree Planting                                      | SLI+    | SLI+         | SIG+       | SLI+      | SIG+        | SIG+         | SIG+           | SIG+         |
| 654-Wood Harvest                                       | SLI+    | SLI+         | SLI+       | SLI+      | SIG+        | SIG+         | SIG+           | SIG+         |
| 560-Access Road  | SLI+    | SIG+         | SLI+       | SLI+      | SLI+        | SLI+         | 0              | SLI+         |
| 666-Wood Improved                                      | SLI+    | SIG+         | SLI+       | 0         | SIG+        | SIG+         | SIG+           | SIG+         |
| 412-Grassed W.W.                                       | SIG+    | SIG+         | SLI+       | SLI+      | NA          | NA           | NA             | NA           |
| 386-Field Border                                       | SLI+    | NA           | NA         | SLI+      | SLI+        | SLI+         | SLI+           | SLI+         |
| 342-Critical Area                                      | SLI+    | SIG+         | SLI+       | SIG+      | SLI+        | SLI+         | SIG+           | SIG+         |
| 372-Livestock Excl.                                    | SLI+    | SLI+         | SIG+       | SIG+      | SIG+        | SIG+         | SIG+           | SIG+         |
| 645-Upland Wildlife Mgmt.                              | MOD+    | 0            | SLI+       | SLI+      | SLI+        | SLI+         | SLI+           | SLI+         |
|  |         |              |            |           |             |              |                |              |

MINNESOTA TECHNICAL GUIDE SECTION III  
CONSERVATION MANAGEMENT SYSTEM (CMS) GUIDESHEET

| RESOURCE: WOODLAND MLRA 105 SETTING # 2 UPLAND HARDWOODS |                 |               |  |  |  |  |  |  |
|--|-----------------|---------------|--|--|--|--|--|--|
| Resource:  | Plants          | Animals       |  |  |  |  |  |  |
| Resource Problems  | Pest Management | Pop & Balance |  |  |  |  |  |  |
| Practices  | A-3-c           | E-2-a         |  |  |  |  |  |  |
| 410-Grade Stabilizer                                     | NA              | SIG+          |  |  |  |  |  |  |
| 362-Diversion  | SIL+            | SLI+          |  |  |  |  |  |  |
| 382-Fencing  | FAC             | FAC           |  |  |  |  |  |  |
| 612-Tree Planting  | SIG+            | SIG+          |  |  |  |  |  |  |
| 654-Woodland Harvest                                     | SIG+            | SLI+          |  |  |  |  |  |  |
| 560-Access Road  | SLI+            | SLI+          |  |  |  |  |  |  |
| 666-Woodland Improvement                                 | SIG+            | SLI+          |  |  |  |  |  |  |
| 412-Grassed W. W.  | NA              | SLI+          |  |  |  |  |  |  |
| 386-Field Border   | SLI+            | SLI+          |  |  |  |  |  |  |
| 342-Critical Area  | NA              | SLI+          |  |  |  |  |  |  |
| 372-Livestock Exclusion                                  | SIG+            | SIG+          |  |  |  |  |  |  |
| 645-Upland Wildlife Mgmt.                                | SLI+            | SIG+          |  |  |  |  |  |  |